



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICANT: Burrows
SERIAL NO.: 09/309,361 CONFIRMATION No: 7398
FILING DATE: May 11, 1999
TITLE: Method for Pressurized Annealing of Lithium Niobate and Resulting
Lithium Niobate Structures
PATENT NO.: 6,770,132 *bl*
ISSUED: Aug 3, 2004
EXAMINER: Lan Vinh
ART UNIT: 1765

Certificate
JUN 20 2005
of Correction

CERTIFICATE OF MAILING

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Date: *June 14, 2005*

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TRANSMITTAL FOR CERTIFICATE OF CORRECTION

We enclose, pursuant to the provisions of 37 C.F.R. §1.322, a Certificate of
Correction for United States Patent No. 6,770,132. Please make the Certificate of
Correction and the statements herein of record.

The corrections made to the above-identified United States Patent in the Certificate
of Correction filed herewith are to correct mistakes which are of a minor character
according to 35 U.S.C. §254 and 37 C.F.R. §1.322. The proposed corrections do not

constitute such changes in the patent as would constitute new matter or would require re-examination.

37 C.F.R. §1.322 Corrections


Please see attached Certificate of Correction.

No Fee Due

It is believed that no fee is required for filing the above-noted document. In the event any fee is required for filing of this Certificate of Correction, the Assistant Commissioner is hereby authorized to charge the fee to our Deposit Account No. 50-1698.

Respectfully submitted,
THELEN REID & PRIEST LLP

Dated: June 9, 2005



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JUN 22 2005

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO : 6,770,132 **B1**

DATED : Aug 3, 2004

INVENTOR(S) : Burrows

It is certified that error appears in the above-identified patent and that said Letters Patent are hereby corrected as shown below:

- 1) In section 56 of the cover page by US patent 4,196,963 remove the ***
- 2) In section 57 of the cover page, after ramp down rate., insert --In another aspect of the invention a lithium niobate structure such as an optical waveguide or an optical modulator comprises an optically transparent portion that is substantially void of free protons.--

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PATENT NO. 6,770,132 **B1**

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This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.



CALT-2806

ABSTRACT

In one aspect of the invention, a method for pressurized annealing of lithium niobate or lithium tantalate structures, such as optical modulators and optical wave guides, comprises pressurizing an oxygen atmosphere containing a lithium niobate or lithium tantalate structure above normal atmospheric pressure, heating the structure to a temperature ranging from about 150 degrees Celsius to about 1000 degrees Celsius, maintaining pressure and temperature to effect ion exchange or to relieve stress, and cooling the structure to an ambient temperature at an appropriate ramp down rate.

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Correction 2:

In another aspect of the invention a lithium niobate structure such as an optical waveguide or an optical modulator comprises an optically transparent portion that is substantially void of free protons.